WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 25710

Formation INDIAN CAVE Elevation _____ Eff. Pay _____ Ft.

District PRATT Date 6-10-77 Customer Order No. _____

COMPANY NAME PICKRELL DRLG. Company
ADDRESS c/o TWIN BRDG. 120 N. MARKET WICHITA, KS.
LEASE AND WELL NO. WOODRIDGE #2 COUNTY KINGMAN STATE KS Sec. 6 Twp. 30S Rge. 7W
Mail Inv. To USUAL No. Copies Requested Reg
Co. Name Address
Mail Charts To USUAL No. Copies Requested Reg
Address

Formation Test No. 1 O.K. ✓ Misrun _____ Interval Tested From 2164 to 2220 Total Depth 2220
Size Main Hole 7 7/8 Rat Hole — Conv. _____ B.T. X Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No
Top Packer Depth 2159 Ft. Size 6 3/4 Bottom Packer Depth 2164 Ft. Size 6 3/4
Straddle — Conv. — B.T. — Damaged — Yes — No Packer Depth — Ft. Size —
Tool Size 5 1/2 D Tool Joint Size 4 1/2 F.H. Anchor Length 56 Ft. Size 5 1/2 D Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2209 Ft. Clock No. 6799 Depth 2212 Ft. Clock No. 6894
Top Make KUSTER Cap. 4150 No. 969 Inside ~~Outside~~ Bottom Make KUSTER Cap. 4000 No. 3361 ~~Inside~~ Outside
Below Straddle: Depth — Rec. No. — Clock No. — Inside Outside Depth — Ft. Rec. No. — Clock No. — Inside Outside

Time Set Packer 7:58 A.M.
Tool Open I.F.P. From 8:00 M. to 8:30 M. Hr. 30 Min. From (B) 215 213 P.S.I. To (C) 717 729 P.S.I.
Tool Closed I.C.I.P. From 8:30 M. to 9:30 M. 1 Hr. — Min. (D) 932 930 P.S.I.
Tool Open F.F.P. From 9:30 M. to 10:30 M. 1 Hr. — Min. From (E) 717 715 P.S.I. To (F) 891 900 P.S.I.
Tool Closed F.C.I.P. From 10:30 M. to 12:00 M. 1 Hr. 30 Min. (G) 932 943 P.S.I.
Initial Hydrostatic Pressure (A) 1199 P.S.I. 1193 Final Hydrostatic Pressure (H) 1199 1191 P.S.I. Maximum Temp. 95

INFORMATION

BLOW STRONG BLOW THEN DECLINING

Did Well Flow — Yes X No Recovery Total Ft. 1650 ft. G.C. Salt water

Reversed Out X Yes — No Mud Type STARCH Viscosity 38 Weight 10.2 Water Loss 68.4 cc. Chlorides 110,000
EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint — Jars: Size — In. Make — Ser. No. —
Dual Packers YES Did Packers Hold? YES Did Tool Plug? — Where? —
DRILLING CONTRACTOR Co. TOOLS Length Drill Pipe 1544 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 F.H. In.
Length Weight Pipe 600 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 F.H. In. Length Drill Collars — ft. I.D. Drill Collars — In.
Tool Joint Size — In. Length D.S.T. Tool 26 ft.

Remarks

INVOICE SECTION

Open Hole Test	$ 380 00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Misrun	$
Evaluation	$
Packer	$ 00
Circ. Sub.	$ 30
	$ 00
Total	$ 410

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Geo. R. Dent
Signature of Customer or his Authorized Representative Geo. R. Dent

Western Representative Bill Hagen

Operator's Time 4 Tank Hour Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-10-77 Test Ticket No. 25710

Recorder No. 969 Capacity 4150 Location 2209 Ft.

Clock No. 6799 Elevation — Well Temperature 95 °F

Point	Pressure			Time Given	Time Computed
Initial Hydrostatic Mud	1193	P.S.I.	Open Tool	7:58A M	
First Initial Flow Pressure	213	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	729	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
Initial Closed-in Pressure	930	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
Second Initial Flow Pressure	715	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
Second Final Flow Pressure	900	P.S.I.			
Final Closed-in Pressure	943	P.S.I.			
Final Hydrostatic Mud	1191	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

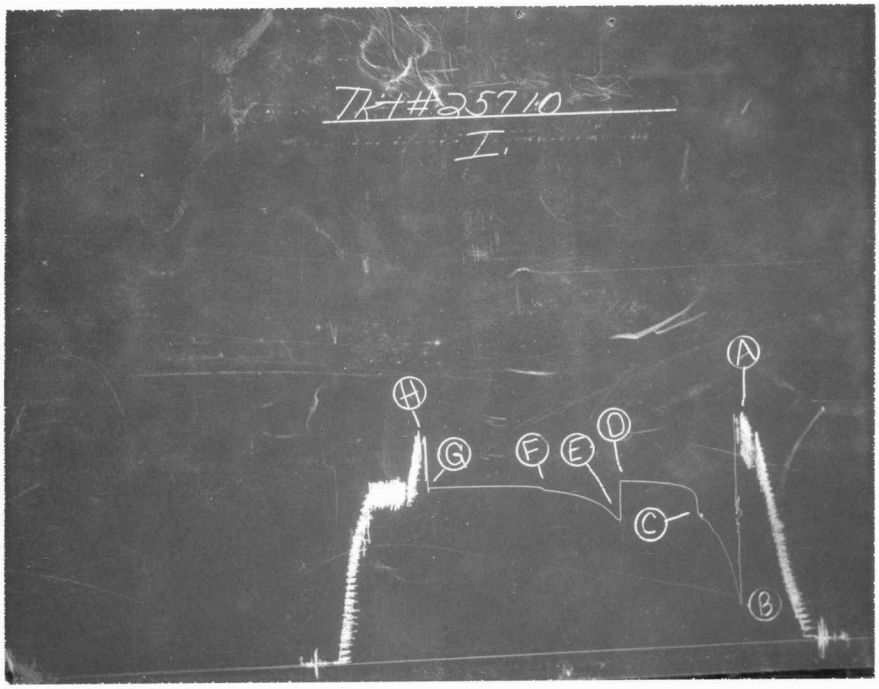
Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
1	0	213		0	729		0	715		0	900
2	5	383		3	850		5	740		3	915
3	10	498		6	867		10	776		6	920
4	15	586		9	879		15	802		9	922
5	20	639		12	886		20	823		12	924
6	25	693		15	892		25	838		15	926
7	30	729		18	898		30	852		18	927
8	35			21	902		35	865		21	928
9	40			24	906		40	873		24	929
10	45			27	910		45	883		27	930
11	50			30	912		50	889		30	931
12	55			33	915		55	896		33	932
13	60			36	918		60	900		36	933
14				39	920		65			39	934
15				42	922		70			42	935
16				45	924		75			45	935
17				48	926		80			48	936
18				51	928		85			51	936
19				54	929		90			54	937
20				57	930					57	938
				60	930					60	939

WTC - 4


TK#25710
I.
H
G
F
E
D
C
A
B

WESTERN TESTERS

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Indian Cave Effective Pay - Ft. Ticket No. 25710

Date 6-10-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by George R. Dent Western Representative Bill Hager

Formation Test No. 1 O.K. X Misrun - Interval Tested From 2164' to 2220' Total Depth 2220'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 2159 Ft. Size 6 3/4 Bottom Packer Depth 2164 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ OD Anchor Length 56 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2209 Ft. Clock No. 6799 Depth 2212 Ft. Clock No. 6894

Top Make Kuster Cap. 4150 No. 969 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 7:58A M

Tool Open I.F.P. From 8:00A M. to 8:30 AM. - Hr. 30 Min. From (B) 213 P.S.I. To (C) 729 P.S.I.

Tool Closed I.C.I.P. From 8:30 M. to 9:30 AM. 1 Hr. - Min (D) 930 P.S.I.

Tool Open F.F.P. From 9:30A M. to 10:30A M. 1 Hr. - Min. From (E) 715 P.S.I. To (F) 900 P.S.I.

Tool Closed F.C.I.P. From 10:30 M. to 12:00P M. 1 Hr. 30 Min. (G) 943 P.S.I.

Initial Hydrostatic Pressure (A) 1193 P.S.I. Final Hydrostatic Pressure (H) 1191 P.S.I. Maximum Temp. 95

INFORMATION

BLOW Strong blow then declining.

Did Well Flow - Yes X No Recovery Total Ft. 1650' gas cut saltwater.

Reversed Out X Yes - No Mud Type starch Viscosity 38 Weight 10.2 Water Loss 68.4 cc. Chlorides 110,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? 0 Where? -

DRILLING CONTRACTOR Co. Tools Length Drill Pipe? 1544 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 600 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 76 Ft.

Remarks:

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Indian Cave Effective Pay - Ft. Ticket No. 25710

Date 6-10-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by George R. Dent Western Representative Bill Hager

Formation Test No. 1 O.K. X Misrun - Interval Tested From 2164' to 2220' Total Depth 2220'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged — Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 2159 Ft. Size 6 3/4 Bottom Packer Depth 2164 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ OD Anchor Length 56 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2209 Ft. Clock No. 6799 Depth 2212 Ft. Clock No. 6894

Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 7:58A M

Tool Open I.F.P. From 8:00A M. to 8:30 A M. - Hr. 30 Min. From (B) 213 P.S.I. To (C) 729 P.S.I.

Tool Closed I.C.I.P. From 8:30 M. to 9:30 A M. 1 Hr. - Min (D) 930 P.S.I.

Tool Open F.F.P. From 9:30A M. to 10:30A M. 1 Hr. - Min. From (E) 715 P.S.I. To (F) 900 P.S.I.

Tool Closed F.C.I.P. From 10:30 M. to 12:00P M. 1 Hr. 30 Min. (G) 943 P.S.I.

Initial Hydrostatic Pressure (A) 1193 P.S.I. Final Hydrostatic Pressure (H) 1191 P.S.I. Maximum Temp. 95

INFORMATION

BLOW Strong blow then declining.

Did Well Flow - Yes X No Recovery Total Ft. 1650' gas cut saltwater.

Reversed Out X Yes - No Mud Type starch Viscosity 38 Weight 10.2 Water Loss 68.4 cc. Chlorides 110,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? 0 Where? -

DRILLING CONTRACTOR Co. Tools Length Drill Pipe? 1544 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 600 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 76 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-10-77 Test Ticket No. 25710

Recorder No. 969 Capacity 4150 Location 2209 Ft.

Clock No. 6799 Elevation - Well Temperature 95 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1193 P.S.I.	Open Tool	7:58 A M	
B First Initial Flow Pressure	213 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	729 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	930 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	715 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	900 P.S.I.			
G Final Closed-in Pressure	943 P.S.I.			
H Final Hydrostatic Mud	1191 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	213		0	729		0	715		0	900
P 2	5	383		3	850		5	740		3	915
P 3	10	498		6	867		10	776		6	920
P 4	15	586		9	879		15	802		9	922
P 5	20	639		12	886		20	823		12	924
P 6	25	693		15	892		25	838		15	926
P 7	30	729		18	898		30	852		18	927
P 8				21	902		35	865		21	298
P 9				24	906		40	873		24	929
P10				27	910		45	883		27	930
P11				30	912		50	889		30	391
P12				33	915		55	896		33	932
P13				36	918		60	900		36	933
P14				39	920					39	934
P15				42	922					42	395
P16				45	924					45	395
P17				48	926					48	936
P18				51	928					51	936
P19				54	929					54	937
P20				57	930					57	938
				60	930					60	939

WTC - 4

(Con't Next PAge)

WESTERN TESTING CO., INC.
Pressure Data

Date 6-10-77 Test Ticket No. 25710

Recorder No. 969 Capacity 4150 Location 2209 Ft.

Clock No. 6799 Elevation - Well Temperature 95 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1193 P.S.I.	Open Tool	7:58 AM	
B First Initial Flow Pressure	213 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	729 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	930 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	715 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	900 P.S.I.			
G Final Closed-in Pressure	943 P.S.I.			
H Final Hydrostatic Mud	1191 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	213
P 2 5	383
P 3 10	498
P 4 15	586
P 5 20	639
P 6 25	693
P 7 30	729
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	729
3	850
6	867
9	879
12	886
15	892
18	898
21	902
24	906
27	910
30	912
33	915
36	918
39	920
42	922
45	924
48	926
51	928
54	929
57	930
60	930

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	715
5	740
10	776
15	802
20	823
25	838
30	852
35	865
40	873
45	883
50	889
55	896
60	900

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	900
3	915
6	920
9	922
12	924
15	926
18	927
21	298
24	929
27	930
30	391
33	932
36	933
39	934
42	395
45	395
48	936
51	936
54	937
57	938
60	939

(Con't Next PAge)

WESTERN TESTING CO., INC.

Pressure Data

Date 6-10-77 Test Ticket No. 25710

Recorder No. 969 Capacity 4150 Location 2209 Ft.

Clock No. 6799 Elevation - Well Temperature 95 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C	First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D	Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E	Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F	Second Final Flow Pressure	P.S.I.			
G	Final Closed-in Pressure	P.S.I.			
H	Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: Inc.
of mins. and a
final inc. of Min.

Initial Shut-In
Breakdown: Inc.
of mins. and a
final inc. of Min.

Second Flow Pressure
Breakdown: Inc.
of mins. and a
final inc. of Min.

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	939
P 2						66	939
P 3						69	940
P 4						72	940
P 5						75	940
P 6						78	941
P 7						81	941
P 8						84	942
P 9						87	942
P10						90	943
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.

Pressure Data

Date 6-10-77 Test Ticket No. 25710

Recorder No. 969 Capacity 4150 Location 2209 Ft.

Clock No. 6799 Elevation - Well Temperature 95 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: Inc.	Breakdown: Inc.	Breakdown: Inc.	Breakdown: 30 Inc.
of mins. and a	of mins. and a	of mins. and a	of 3 mins. and a
final inc. of Min.	final inc. of Min.	final inc. of Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	939
P 2						66	939
P 3						69	940
P 4						72	940
P 5						75	940
P 6						78	941
P 7						81	941
P 8						84	942
P 9						87	942
P10						90	943
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTERS

4 copies

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 25691

Formation KC Elevation _____ Eff. Pay _____ Ft.

District PRATT Date 6-15-77 Customer Order No. _____

COMPANY NAME NICKELL DRLG. Company

ADDRESS LITWIN BLDG. N. MARKET. WICHITA, KS

LEASE AND WELL NO. WOOLDRIDGE #1 COUNTY KINGMAN STATE KS Sec. 6 Twp. 30S Rge. 7W

Mail Inv. To SAME No. Copies Requested Reg
Co. Name Address

Mail Charts To SAME No. Copies Requested Reg
Address

Formation Test No. 2 O.K. X Misrun _____ Interval Tested From 3791 to 3810 Total Depth ~~3791~~ 3810

Size Main Hole 7⅞ Rat Hole — Conv. _____ B.T. X Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No

Top Packer Depth 3786 Ft. Size 6 3/4 Bottom Packer Depth 3791 Ft. Size 6 3/4

Straddle — Conv. — B.T. — Damaged — Yes — No Packer Depth — Ft. Size —

Tool Size 5½ O.D. Tool Joint Size 4½ F.H. Anchor Length 19 Ft. Size 5½ O.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3800 Ft. Clock No. 4763 Depth 3803 Ft. Clock No. 9726

Top Make KUSTER Cap. 4150 No. 2604 Inside Outside Bottom Make KUSTER Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth — Rec. No. — Clock No. — Inside Outside Depth — Ft. Rec. No. — Clock No. — Inside Outside

Time Set Packer 3:18 A.M.

Tool Open I.F.P. From 3:20 M. to 3:50 M. — Hr. 30 Min. From (B) 42 28 P.S.I. To (C) 74 81 P.S.I.

Tool Closed I.C.I.P. From 3:50 M. to 4:50 M. 1 Hr. _____ Min. (D) 1453 1466 P.S.I.

Tool Open F.F.P. From 4:50 M. to 5:50 M. 1 Hr. — Min. From (E) 85-100 P.S.I. To (F) 170 181 P.S.I.

Tool Closed F.C.I.P. From 5:50 M. to 7:20 M. 1 Hr. 30 Min. (G) 1432 1439 P.S.I.

Initial Hydrostatic Pressure (A) 2010 1977 P.S.I. Final Hydrostatic Pressure (H) 1947 1944 P.S.I. Maximum Temp. 122

INFORMATION

BLOW GOOD BLOW THRU-OUT TEST
GAS TO SURFACE IN 55 MINUTES 2nd OPENING - TO SMALL TO GAUGE

Did Well Flow — Yes X No Recovery Total Ft. 420 ft. - 330 ft. GAS CUT MUDDY OIL
90 ft. Salt Water

Reversed Out — Yes X No Mud Type MUD Viscosity 34 Weight 10.1 Water Loss 24.4 cc. Chlorides 85,000

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint — Jars: Size — In. Make — Ser. No. —

Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where? —

DRILLING CONTRACTOR CO TOOLS Length Drill Pipe 3140 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ F.H. In.

Length Weight Pipe 630 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½ F.H. In. Length Drill Collars — ft. I.D. Drill Collars — In.

Tool Joint Size ~~4½ F.H.~~ In. Length D.S.T. Tool 40 ft.

Remarks Chloride - 12,000 P.P.M.

INVOICE SECTION

Open Hole Test	$380 ~~00~~
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$390 00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By George Nickell
Signature of Customer or his Authorized Representative

Western Representative Bill Starr

Operator's Time Frank Lee Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-15-77 Test Ticket No. 25691

Recorder No. 2604 Capacity 4150 Location 3800 Ft.

Clock No. 4763 Elevation — Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1977 P.S.I.		Open Tool	3:18 AM	
B	First Initial Flow Pressure	28 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	81 P.S.I.		Initial Closed-in Pressure	60 Mins.	63 Mins.
D	Initial Closed-in Pressure	1466 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	100 P.S.I.		Final Closed-in Pressure	90 Mins.	Mins.
F	Second Final Flow Pressure	181 P.S.I.				
G	Final Closed-in Pressure	1439 P.S.I.				
H	Final Hydrostatic Mud	1947 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	28
P 2	5	45
P 3	10	51
P 4	15	60
P 5	20	69
P 6	25	77
P 7	30	81
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
0		81
3		181
6		340
9		538
12		768
15		1040
18		1186
21		1265
24		1311
27		1343
30		1364
33		1380
36		1396
39		1408
42		1418
45		1426
48		1435
51		1441
54		1450
57		1456
60		1460
63		1466

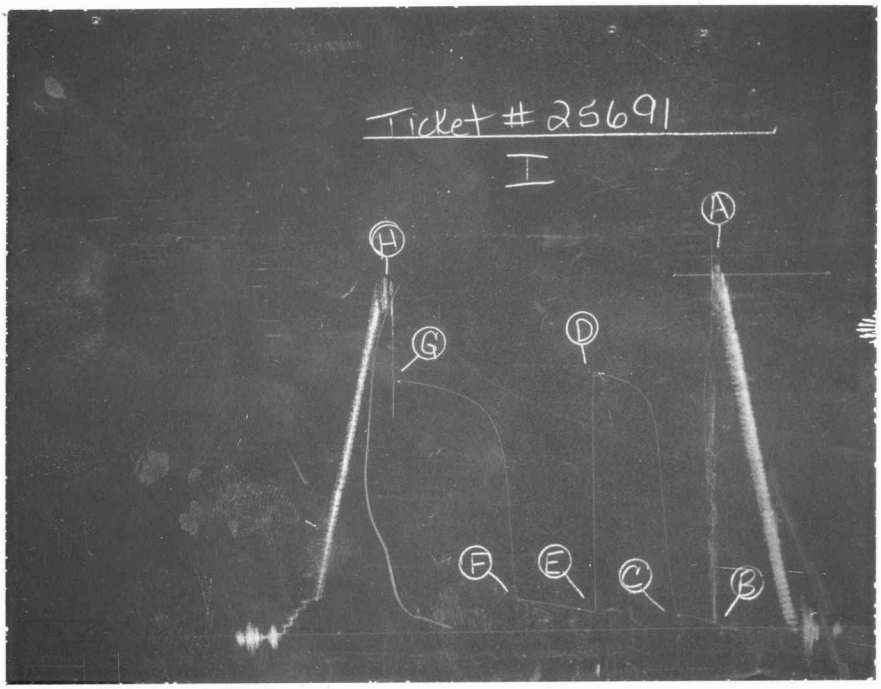
Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
0		100
5		107
10		115
15		124
20		130
25		136
30		145
35		151
40		158
45		164
50		168
55		175
60		181
65		
70		
75		
80		
85		
90		

Final Shut-In
Breakdown: 31 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
0		181
3		351
6		623
9		868
12		1019
15		1102
18		1163
21		1207
24		1240
27		1263
30		1286
33		1303
36		1318
39		1330
42		1341
45		1351
48		1359
51		1368
54		1376
57		1382
60		1389
63		1397
66		1401

WTC - 4


Ticket # 25691
I
H
A
G
D
F
E
C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #1

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 25691

Date 6-15-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by George R. Dent Western Representative Bill Hager

Formation Test No. 2 O.K. X Misrun - Interval Tested From 3791' to 3810' Total Depth 3810'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 3786 Ft. Size 6 3/4 Bottom Packer Depth 3791 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 19 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3800 Ft. Clock No. 4763 Depth 3803 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 3:18 A M

Tool Open I.F.P. From 3:20 A M. to 3:50 A M. - Hr. 30 Min. From (B) 28 P.S.I. To (C) 81 P.S.I.

Tool Closed I.C.I.P. From 3:50 M. to 4:50 A M. 1 Hr. - Min (D) 1466 P.S.I.

Tool Open F.F.P. From 4:50 A M. to 5:50 A M. 1 Hr. - Min. From (E) 100 P.S.I. To (F) 181 P.S.I.

Tool Closed F.C.I.P. From 5:50 M. to 7:20 A M. 1 Hr. 30 Min. (G) 1439 P.S.I.

Initial Hydrostatic Pressure (A) 1977 P.S.I. Final Hydrostatic Pressure (H) 1947 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Good blow throughout test. Gas to surface in 55 minutes of second opening, too small to guage.

Did Well Flow - Yes X No Recovery Total Ft. 420' total recovery; 330' gas cut muddy oil, 90' salt-water.

Reversed Out - Yes X No Mud Type starch Viscosity 34 Weight 10.1 Water Loss 24.4 cc. Chlorides 85,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? NO Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3140 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 40 Ft.

Remarks: Chlorides 122,000 P.P.M.

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #1

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 25691

Date 6-15-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by George R. Dent Western Representative Bill Hager

Formation Test No. 2 O.K. X Misrun - Interval Tested From 3791' to 3810' Total Depth 3810'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 3786 Ft. Size 6 3/4 Bottom Packer Depth 3791 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 19 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3800 Ft. Clock No. 4763 Depth 3803 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 3:18 A M

Tool Open I.F.P. From 3:20 A M. to 3:50 A M. - Hr. 30 Min. From (B) 28 P.S.I. To (C) 81 P.S.I.

Tool Closed I.C.I.P. From 3:50 M. to 4:50 A M. 1 Hr. - Min (D) 1466 P.S.I.

Tool Open F.F.P. From 4:50 A M. to 5:50 A M. 1 Hr. - Min. From (E) 100 P.S.I. To (F) 181 P.S.I.

Tool Closed F.C.I.P. From 5:50 M. to 7:20 A M. 1 Hr. 30 Min. (G) 1439 P.S.I.

Initial Hydrostatic Pressure (A) 1977 P.S.I. Final Hydrostatic Pressure (H) 1947 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Good blow throughout test. Gas to surface in 55 minutes of second opening, too small to guage.

Did Well Flow - Yes X No Recovery Total Ft. 420' total recovery; 330' gas cut muddy oil, 90' salt-water.

Reversed Out - Yes X No Mud Type starch Viscosity 34 Weight 10.1 Water Loss 24.4 cc. Chlorides 85,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? NO Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3140 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 40 Ft.

Remarks: Chlorides 122,000 P.P.M.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-15-77 Test Ticket No. 25691

Recorder No. 2604 Capacity 4150 Location 3800 Ft.

Clock No. 4763 Elevation – Well Temperature 122 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1977	P.S.I.
B	First Initial Flow Pressure	28	P.S.I.
C	First Final Flow Pressure	81	P.S.I.
D	Initial Closed-in Pressure	1466	P.S.I.
E	Second Initial Flow Pressure	100	P.S.I.
F	Second Final Flow Pressure	181	P.S.I.
G	Final Closed-in Pressure	1439	P.S.I.
H	Final Hydrostatic Mud	1947	P.S.I.

	Time Given	Time Computed
Open Tool	3:18 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	63 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	93 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	28
P 2	5	45
P 3	10	51
P 4	15	60
P 5	20	69
P 6	25	77
P 7	30	81
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	81
3	181
6	340
9	538
12	768
15	1040
18	1186
21	1265
24	1311
27	1343
30	1364
33	1380
36	1396
39	1408
42	1418
45	1426
48	1435
51	1441
54	1450
57	1456
60	1460
63	1466

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	100
5	107
10	115
15	124
20	130
25	136
30	145
35	151
40	158
45	164
50	168
55	175
60	181

Final Shut-In
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	181
3	357
6	623
9	868
12	1019
15	1102
18	1163
21	1207
24	1240
27	1263
30	1286
33	1303
36	1318
39	1330
42	1341
45	1351
48	1359
51	1368
54	1376
57	1382
60	1389

(Con't Next PAge)

WESTERN TESTING CO., INC.

Pressure Data

Date 6-15-77 Test Ticket No. 25691

Recorder No. 2604 Capacity 4150 Location 3800 Ft.

Clock No. 4763 Elevation – Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1977	P.S.I.	Open Tool	3:18 AM	
B	First Initial Flow Pressure	28	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	81	P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D	Initial Closed-in Pressure	1466	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	100	P.S.I.	Final Closed-in Pressure	90 Mins.	93 Mins.
F	Second Final Flow Pressure	181	P.S.I.			
G	Final Closed-in Pressure	1439	P.S.I.			
H	Final Hydrostatic Mud	1947	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 31 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	28	0	81	0	100	0	181
P 2	5	45	3	181	5	107	3	357
P 3	10	51	6	340	10	115	6	623
P 4	15	60	9	538	15	124	9	868
P 5	20	69	12	768	20	130	12	1019
P 6	25	77	15	1040	25	136	15	1102
P 7	30	81	18	1186	30	145	18	1163
P 8			21	1265	35	151	21	1207
P 9			24	1311	40	158	24	1240
P10			27	1343	45	164	27	1263
P11			30	1364	50	168	30	1286
P12			33	1380	55	175	33	1303
P13			36	1396	60	181	36	1318
P14			39	1408			39	1330
P15			42	1418			42	1341
P16			45	1426			45	1351
P17			48	1435			48	1359
P18			51	1441			51	1368
P19			54	1450			54	1376
P20			57	1456			57	1382
			60	1460			60	1389
			63	1466				

(Con't Next PAge)

WESTERN TESTING CO., INC.

Pressure Data

Date 6-15-77 Test Ticket No. 25691

Recorder No. 2604 Capacity 4150 Location 3800 Ft.

Clock No. 4763 Elevation – Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: Inc.	Breakdown: Inc.	Breakdown: Inc.	Breakdown: 31 Inc.
of mins. and a	of mins. and a	of mins. and a	of 3 mins. and a
final inc. of Min.	final inc. of Min.	final inc. of Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1397
P 2						66	1401
P 3						69	1408
P 4						72	1412
P 5						75	1416
P 6						78	1421
P 7						81	1424
P 8						84	1429
P 9						87	1433
P10						90	1435
P11						93	1439
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.

Pressure Data

Date 6-15-77 Test Ticket No. 25691

Recorder No. 2604 Capacity 4150 Location 3800 Ft.

Clock No. 4763 Elevation – Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: Inc.	Breakdown: Inc.	Breakdown: Inc.	Breakdown: 31 Inc.
of mins. and a	of mins. and a	of mins. and a	of 3 mins. and a
final inc. of Min.	final inc. of Min.	final inc. of Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1397
P 2						66	1401
P 3						69	1408
P 4						72	1412
P 5						75	1416
P 6						78	1421
P 7						81	1424
P 8						84	1429
P 9						87	1433
P10						90	1435
P11						93	1439
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 25692

Formation MISS Elevation _____ Eff. Pay _____ Ft.

District RTA Date 6-17-77 Customer Order No. _____

COMPANY NAME Rachel Drlg. Co. Inv. 205

ADDRESS Litwin Bldg. 110 N. Market Wichita, Ks.

LEASE AND WELL NO. Woldruple #2 COUNTY Kingman STATE Ks. Sec. 6 Twp. 30 Rge. 7W

Mail Inv. To _____ No. Copies Requested Reg

Co. Name Same Address

Mail Charts To _____ No. Copies Requested Reg

Address

Formation Test No. 3 O.K. X Misrun _____ Interval Tested From 4137 to 4154 Total Depth 4154

Size Main Hole 7⅞ Rat Hole _____ Conv. _____ B.T. X Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No

Top Packer Depth 4132 Ft. Size 6 3/4 Bottom Packer Depth 4137 Ft. Size 6 3/4

Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Joint Size 4½ FH Anchor Length 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4145 Ft. Clock No. 9763 Depth 4148 Ft. Clock No. 9926

Top Make Kuster Cap. 4150 No. 2604 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside Outside Depth _____ Ft. Rec. No. _____ Clock No. _____ Inside Outside

Time Set Packer 9:48 A.M.

Tool Open I.F.P. From 9:50 M. to 10:20 M. _____ Hr. 30 Min. From (B) 31 34 P.S.I. To (C) 42 39 P.S.I.

Tool Closed I.C.I.P. From 10:20 M. to 11:20 M. 1 Hr. _____ Min. (D) 1369 1368 P.S.I.

Tool Open F.F.P. From 11:20 M. to 12:50 M. 1 Hr. 30 Min. From (E) 42 41 P.S.I. To (F) 42 40 P.S.I.

Tool Closed F.C.I.P. From 12:50 M. to 2:20 M. 1 Hr. 30 Min. (G) 1338 1341 P.S.I.

Initial Hydrostatic Pressure (A) 2263 2188 P.S.I. Final Hydrostatic Pressure (H) 2263 2188 P.S.I. Maximum Temp. 125

INFORMATION

FLOW STRONG BLOW THRU-OUT TEST GAS TO SURFACE 5 min.

Did Well Flow _____ Yes X No Recovery Total Ft. 120 ft. 60% muddy water - 60 w/ TRY mud

Reversed Out _____ Yes X No Mud Type Chem Viscosity 56 Weight 9.9 Water Loss 16.0 cc. Chlorides 62,000

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR Co. Tools. Length Drill Pipe 3486 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ FH In.

Length Weight Pipe 630 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½ FH In. Length Drill Collars _____ ft. I.D. Drill Collars _____ In.

Tool Joint Size _____ In. Length D.S.T. Tool 38 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	$ 415 00
Straddle Test	$ _____
Jars	$ _____
Selective Zone	$ _____
Safety Joint	$ _____
Misrun	$ _____
Evaluation	$ _____
Packer	$ _____
Circ. Sub.	$ _____
	$ _____
Total	$ 415 00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By _____ Western Representative Bill Hagen

Signature of Customer or his Authorized Representative

Operator's Time _____ Hrs.

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 633

Date 6-17-77 Ticket 25692 Company Pickrell Drlg Co.

Well Name and No. Woolridge #2 Dst No. 3 Interval Tested 3134-54

County Kingman State Ks. Sec. 6 Twp. 30 S Rg. 7 W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
G.T.S. IN 5 MINUTES.						
Tool open at 9:50 A.M.						
10:00	10	18	1" orifice Plate			110,000 CFT. P.D.
10:10	20	20	"			115,000 "
10:20	30	20	"			115,000 "
SECOND FLOW						
Tool open @ 11:20						
11:30	10	42	1" orifice Plate			167,000 CFT. P.D.
11:40	20	24	"			126,000
11:50	30	20	"			115,000
12:00	40	18	"			110,000
12:10	50	18	"			110,000
12:20	60	16	"			103,000
12:30	70	16	"			103,000
12:40	80	16	"			103,000
12:50	90	16	"			103,000

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

FORM WTC 9

WESTERN TESTING CO., INC.

Pressure Data

Date 6-17-77 Test Ticket No. 25692

Recorder No. 2604 Capacity 4150 Location 4145 Ft.

Clock No. 4763 Elevation – Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2188	P.S.I.	Open Tool	9:48A M	~~36~~
B	First Initial Flow Pressure	34	P.S.I.	First Flow Pressure	30 Mins.	36 Mins.
C	First Final Flow Pressure	39	P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D	Initial Closed-in Pressure	1368	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	41	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	40	P.S.I.			
G	Final Closed-in Pressure	1341	P.S.I.			
H	Final Hydrostatic Mud	2188	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	34
P 2 5	34
P 3 10	34
P 4 15	36
P 5 20	38
P 6 25	39
P 7 30	39
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

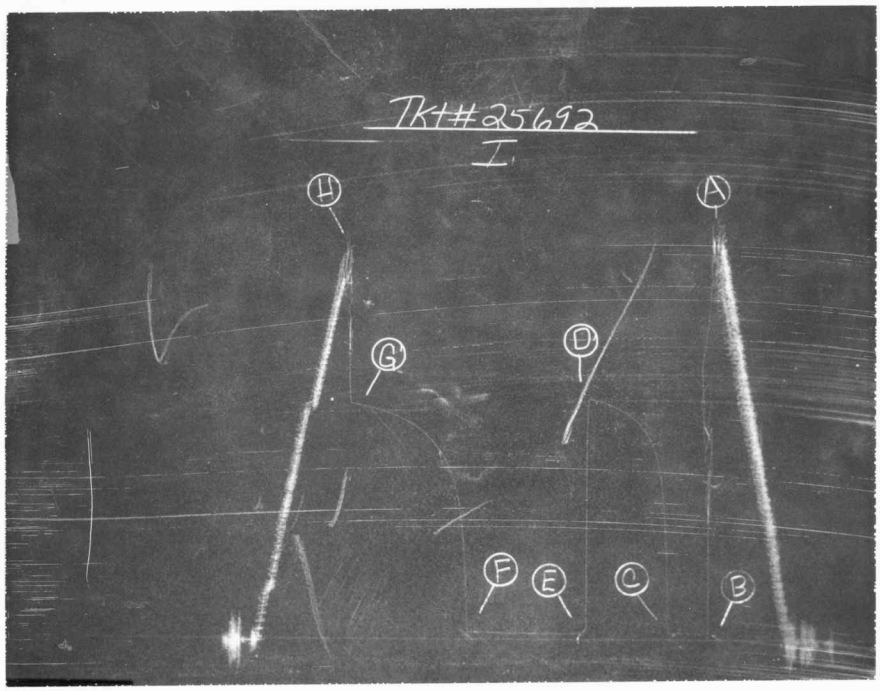
Point Minutes	Press.
0	39
3	453
6	788
9	962
12	1058
15	1119
18	1165
21	1198
24	1224
27	1249
30	1265
33	1282
36	1295
39	1309
42	1318
45	1328
48	1336
51	1345
54	1351
57	1357
60	1364
63	1368

Second Flow Pressure
Breakdown: 18 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	41
5	34
10	34
15	↓
20	
25	
30	
35	
40	
45	36
50	↓
55	
60	36
65	38
70	39
75	40
80	↓
85	
90	40

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	40
3	451
6	684
9	811
12	893
15	968
18	1008
21	1048
24	1084
27	1113
30	1142
33	1163
36	1184
39	1201
42	1215
45	1230
48	1233
51	1254
54	1265
57	1274
60	1282
63	1290 (est.)


TK#25692
I
H
A
G
D
F
E
C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25692

Date 6-17-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Jay C. McNeil Western Representative Bill Hager

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4137' to 4154' Total Depth 4154

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4132 Ft. Size 6 3/4 Bottom Packer Depth 4137 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 17 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4145 Ft. Clock No. 4763 Depth 4148 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 9:48 A M

Tool Open I.F.P. From 9:50 A M. to 10:20 A M. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 39 P.S.I.

Tool Closed I.C.I.P. From 10:20 M. to 11:20 A M. 1 Hr. - Min (D) 1368 P.S.I.

Tool Open F.F.P. From 11:20 A M. to 12:50 P M. 1 Hr. 30 Min. From (E) 41 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 12:50 M. to 2:20 P M. 1 Hr. 30 Min. (G) 1341 P.S.I.

Initial Hydrostatic Pressure (A) 2188 P.S.I. Final Hydrostatic Pressure (H) 2188 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 5 minutes. See attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 120' total recovery; 60' muddy water, 60' watery mud.

Reversed Out - Yes X No Mud Type starch Viscosity 56 Weight 9.9 Water Loss 16.0 cc. Chlorides 62,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3486 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½ FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 38 Ft.

Remarks:

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 6-17-77 Ticket 25692 Company Pickrell Drilling Company

Well Name and No. Wooldridge #2 Dst No. 3 Interval Tested 4134' - 4154'

County Kingman State Kansas Sec. 6 Twp. 30S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow	
PRE FLOW							
10:00AM	10 min.	18 inches	of water		1" choke	110,000	C.F.P.D.
10:10AM	20 min.	20 inches	of water		1" choke	115,000	C.F.P.D.
10:20AM	30 min.	20 inches	of water		1" choke	115,000	C.F.P.D.
SECOND FLOW							
11:30AM	10 min.	42 inches	of water		1" choke	167,000	C.F.P.D.
11:40AM	20 min.	24 inches	of water		1" choke	126,000	C.F.P.D.
11:50AM	30 min.	20 inches	of water		1" choke	115,000	C.F.P.D.
12:00PM	40 min.	18 inches	of water		1" choke	110,000	C.F.P.D.
12:10PM	50 min.	18 inches	of water		1" choke	110,000	C.F.P.D.
12:20PM	60 min.	16 inches	of water		1" choke	103,000	C.F.P.D.
12:30PM	70 min.	16 inches	of water		1" choke	103,000	C.F.P.D.
12:40PM	80 min.	16 inches	of water		1" choke	103,000	C.F.P.D.
12:50PM	90 min.	16 inches	of water		1" choke	103,000	C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-17-77 Date to be Invoiced 6-17-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Jay C. McNeil

WESTERN TESTING CO., INC.
Pressure Data

Date 6-17-77 Test Ticket No. 25692

Recorder No. 2604 Capacity 4150 Location 4145 Ft.

Clock No. 4763 Elevation - Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2188	P.S.I.	Open Tool	9:48 AM	
B	First Initial Flow Pressure	34	P.S.I.	First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	39	P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins
D	Initial Closed-in Pressure	1368	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins
E	Second Initial Flow Pressure	41	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins
F	Second Final Flow Pressure	40	P.S.I.			
G	Final Closed-in Pressure	1341	P.S.I.			
H	Final Hydrostatic Mud	2188	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	34	0	39	0	41	0	40
P 2	5	34	3	453	5	34	3	451
P 3	10	34	6	780	10	34	6	684
P 4	15	36	9	962	15	34	9	811
P 5	20	38	12	1058	20	34	12	893
P 6	25	39	15	1119	25	34	15	968
P 7	30	39	18	1165	30	34	18	1008
P 8			21	1198	35	34	21	1048
P 9			24	1224	40	34	24	1084
P10			27	1249	45	36	27	1113
P11			30	1265	50	36	30	1142
P12			33	1282	55	36	33	1163
P13			36	1295	60	36	36	1184
P14			39	1309	65	38	39	1201
P15			42	1318	70	39	42	1215
P16			45	1328	75	40	45	1230
P17			48	1336	80	40	48	1233
P18			51	1345	85	40	51	1254
P19			54	1351	90	40	54	1265
P20			57	1357			57	1274
			60	1364			60	1282
			63	1368				

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WESTERN TESTING CO., INC.
Pressure Data

Date 6-17-77 Test Ticket No. 25692

Recorder No. 2604 Capacity 4150 Location 4145 Ft.

Clock No. 4763 Elevation - Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.		Breakdown: 30 Inc.	
of mins. and a		of mins. and a		of mins. and a		of 3 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1290
P 2						66	1301
P 3						69	1303
P 4						72	1309
P 5						75	1318
P 6						78	1322
P 7						81	1328
P 8						84	1332
P 9						87	1336
P10						90	1341
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25692

Date 6-17-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Jay C. McNeil Western Representative Bill Hager

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4137' to 4154' Total Depth 4154

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4132 Ft. Size 6 3/4 Bottom Packer Depth 4137 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 17 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4145 Ft. Clock No. 4763 Depth 4148 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 9:48 A M

Tool Open I.F.P. From 9:50 A M. to 10:20A M. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 39 P.S.I.

Tool Closed I.C.I.P. From 10:20 M. to 11:20A M. 1 Hr. - Min (D) 1368 P.S.I.

Tool Open F.F.P. From 11:20 A M. to 12:50P M. 1 Hr. 30 Min. From (E) 41 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 12:50 M. to 2:20 P M. 1 Hr. 30 Min. (G) 1341 P.S.I.

Initial Hydrostatic Pressure (A) 2188 P.S.I. Final Hydrostatic Pressure (H) 2188 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 5 minutes. See attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 120' total recovery; 60' muddy water, 60' watery mud.

Reversed Out - Yes X No Mud Type starch Viscosity 56 Weight 9.9 Water Loss 16.0 cc. Chlorides 62,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3486 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 38 Ft.

Remarks:

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 6-17-77 Ticket 25692 Company Pickrell Drilling Company

Well Name and No. Wooldridge #2 Dst No. 3 Interval Tested 4134' - 4154'

County Kingman State Kansas Sec. 6 Twp. 30S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
10:00AM	10 min.	18 inches	of water		1" choke	110,000 C.F.P.D.
10:10AM	20 min.	20 inches	of water		1" choke	115,000 C.F.P.D.
10:20AM	30 min.	20 inches	of water		1" choke	115,000 C.F.P.D.
SECOND FLOW						
11:30AM	10 min.	42 inches	of water		1" choke	167,000 C.F.P.D.
11:40AM	20 min.	24 inches	of water		1" choke	126,000 C.F.P.D.
11:50AM	30 min.	20 inches	of water		1" choke	115,000 C.F.P.D.
12:00PM	40 min.	18 inches	of water		1" choke	110,000 C.F.P.D.
12:10PM	50 min.	18 inches	of water		1" choke	110,000 C.F.P.D.
12:20PM	60 min.	16 inches	of water		1" choke	103,000 C.F.P.D.
12:30PM	70 min.	16 inches	of water		1" choke	103,000 C.F.P.D.
12:40PM	80 min.	16 inches	of water		1" choke	103,000 C.F.P.D.
12:50PM	90 min.	16 inches	of water		1" choke	103,000 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-17-77 Date to be Invoiced 6-17-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Jay C. McNeil

WESTERN TESTING CO., INC.
Pressure Data

Date 6-17-77 Test Ticket No. 25692

Recorder No. 2604 Capacity 4150 Location 4145 F

Clock No. 4763 Elevation - Well Temperature 128 °

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2188	P.S.I.	Open Tool	9:48 AM	
B	First Initial Flow Pressure	34	P.S.I.	First Flow Pressure	30 Mins.	30 Min
C	First Final Flow Pressure	39	P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Min
D	Initial Closed-in Pressure	1368	P.S.I.	Second Flow Pressure	90 Mins.	90 Min
E	Second Initial Flow Pressure	41	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Min
F	Second Final Flow Pressure	40	P.S.I.			
G	Final Closed-in Pressure	1341	P.S.I.			
H	Final Hydrostatic Mud	2188	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	34
P 2 5	34
P 3 10	34
P 4 15	36
P 5 20	38
P 6 25	39
P 7 30	39
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	39
3	453
6	780
9	962
12	1058
15	1119
18	1165
21	1198
24	1224
27	1249
30	1265
33	1282
36	1295
39	1309
42	1318
45	1328
48	1336
51	1345
54	1351
57	1357
60	1364
63	1368

Second Flow Pressure
Breakdown: 18 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	41
5	34
10	34
15	34
20	34
25	34
30	34
35	34
40	34
45	36
50	36
55	36
60	36
65	38
70	39
75	40
80	40
85	40
90	40

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	40
3	451
6	684
9	811
12	893
15	968
18	1008
21	1048
24	1084
27	1113
30	1142
33	1163
36	1184
39	1201
42	1215
45	1230
48	1233
51	1254
54	1265
57	1274
60	1282

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WESTERN TESTING CO., INC.

Pressure Data

Date 6-17-77 Test Ticket No. 25692

Recorder No. 2604 Capacity 4150 Location 4145 Ft.

Clock No. 4763 Elevation - Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.		Breakdown: 30 Inc.	
of mins. and a		of mins. and a		of mins. and a		of 3 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1290
P 2						66	1301
P 3						69	1303
P 4						72	1309
P 5						75	1318
P 6						78	1322
P 7						81	1328
P 8						84	1332
P 9						87	1336
P10						90	1341
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 25693

Formation MISS Elevation _____ Eff. Pay _____ Ft.

District Pratt Date 6-18-77 Customer Order No. _____

COMPANY NAME PICKRELL DRLG. Co.

ADDRESS 617 WIN BLDG. N. MARKET, WICHITA, KS.

LEASE AND WELL NO. WOOLDRIDGE # 2 COUNTY KINGMAN STATE KS Sec. 6 Twp. 30 Rge. 7

Mail Inv. To SAME No. Copies Requested Reg
Co. Name Address

Mail Charts To SAME No. Copies Requested Reg
Address

Formation Test No. 4 O.K. X Misrun _____ Interval Tested From 4154 to 4166 Total Depth 4166

Size Main Hole 7⅞ Rat Hole _____ Conv. _____ B.T. X Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No

Top Packer Depth 4149 Ft. Size 6 3/4 Bottom Packer Depth 4154 Ft. Size 6 3/4

Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____

Tool Size 5½ D.P. Tool Joint Size 4½ F.H. Anchor Length 12 Ft. Size 5½ D.P. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4157 Ft. Clock No. 4763 Depth 4160 Ft. Clock No. 9926

Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 Inside Outside

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside Outside Depth _____ Ft. Rec. No. _____ Clock No. _____ Inside Outside

Time Set Packer 11:38 M

Tool Open I.F.P. From 11:40 M. to 12:10 M. _____ Hr. 30 Min. From (B) 10 17 P.S.I. To (C) 10 15 P.S.I.

Tool Closed I.C.I.P. From 12:10 M. to 1:10 M. 1 Hr. _____ Min. (D) 1129 1251 P.S.I.

Tool Open F.F.P. From 1:10 M. to 2:40 M. 1 Hr. 30 Min. From (E) 101 P.S.I. To (F) 2 17 P.S.I.

Tool Closed F.C.I.P. From 2:40 M. to 4:10 M. 1 Hr. 30 Min. (G) 1140 1264 P.S.I.

Initial Hydrostatic Pressure (A) 2263 2274 P.S.I. Final Hydrostatic Pressure (H) 2263 2268 P.S.I. Maximum Temp. 125

INFORMATION

BLOW STRONG BLOW THRU-OUT TEST - GAS TO SURFACE IN 20 MINUTES ON 2nd OPENING

Did Well Flow Yes X No Recovery Total Ft. 20 ft. Drlg. mud.

Reversed Out Yes X No Mud Type GEL CHEM Viscosity 56 Weight 9.9 Water Loss 16 cc. Chlorides 62,000

EXTRA EQUIPMENT: Type Circ. Sub. PKR Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR CO TOOLS Length Drill Pipe 3504 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ F.H. In.

Length Weight Pipe 630 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½ F.H. In. Length Drill Collars _____ ft. I.D. Drill Collars _____ In.

Tool Joint Size _____ In. Length D.S.T. Tool 32 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	$ 415.00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$ 415.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jay A. McNeil
Signature of Customer or his Authorized Representative

Western Representative Bill Rogers

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-77 Test Ticket No. 25693

Recorder No. 2604 Capacity 4150 Location 4157 Ft.

Clock No. 4763 Elevation — Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2274	P.S.I.	Open Tool	1438 M	
B	First Initial Flow Pressure	17	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	15	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1251	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	11	P.S.I.	Final Closed-in Pressure	90 Mins.	99 Mins.
F	Second Final Flow Pressure	17	P.S.I.			
G	Final Closed-in Pressure	1264	P.S.I.			
H	Final Hydrostatic Mud	2268	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
1 0	17
2 5	11
3 10	14
4 15	15
5 20	15
6 25	15
7 30	15
8 35	
9 40	
10 45	
11 50	
12 55	
13 60	
14	
15	
16	
17	
18	
19	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	15
3	164
6	322
9	457
12	571
15	684
18	772
21	843
24	900
27	955
30	1002
33	1044
36	1082
39	1113
42	1138
45	1165
48	1184
51	1203
54	1220
57	1236
60	1251

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	11
5	6
10	9
15	10
20	11
25	11
30	11
35	12
40	13
45	14
50	14
55	14
60	15
65	16
70	16
75	16
80	16
85	16
90	17

Final Shut-In
Breakdown: 33 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	17
3	102
6	224
9	327
12	421
15	502
18	579
21	650
24	715
27	774
30	828
33	874
36	918
39	956
42	990
45	1019
48	1048
51	1071
54	1092
57	1113
60	1131

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 631

Date 6-18-77 Ticket 25693 Company PICKRELL DRLG. CO.

Well Name and No WOOLDRIDGE # 2 Dst No. 4 Interval Tested 4154-66

County KINGMAN State KS. Sec. 6 Twp. 30 Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
SECOND FLOW						
G.T.S. 20 MINUTES ON 2ND OPENING						
1:40	30 min	12 "H2O	1/4"	Orifice Plate		5,860 C.FT. P.D.
1:50	40 ↓	14	CK			6,330 "
2:00	50	14	"			6,330 "
2:10	60	14	"			6,330 "
2:20	70	14	"			6,330 "
2:30	80	14	"			6,330 "
2:40	90	14	"			6,330 "

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

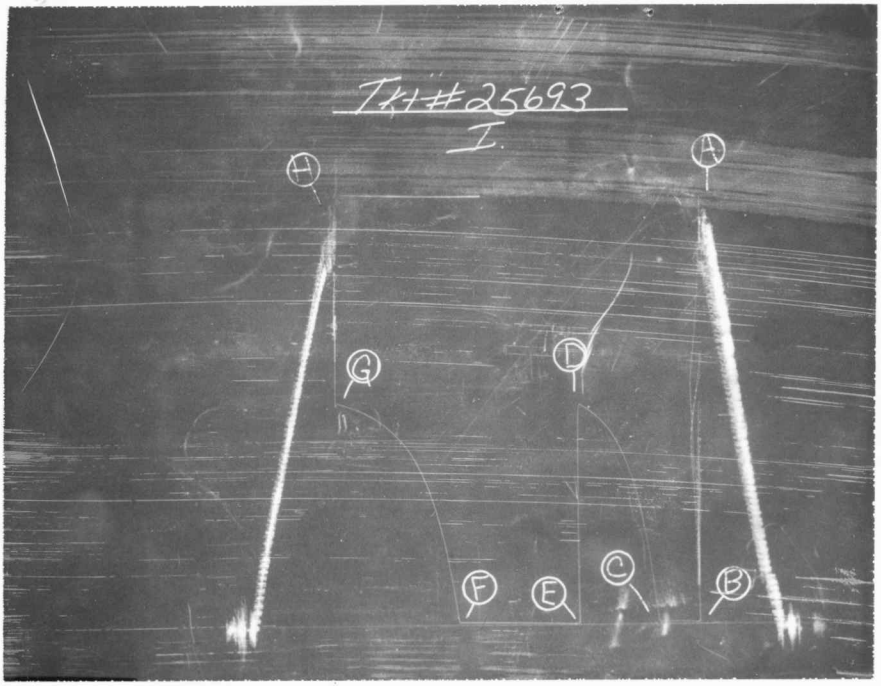
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

FORM WTC 9


Tk1#25693
I.
H
A
G
D
F
E
C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25693

Date 6-18-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Jay C. McNeil Western Representative Bill Hager

Formation Test No. 4 O.K. X Misrun - Interval Tested From 4154' to 4166' Total Depth 4166'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4149 Ft. Size 6 3/4 Bottom Packer Depth 4154 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 12 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4157 Ft. Clock No. 4763 Depth 4160 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:38 M

Tool Open I.F.P. From 11:40 M. to 12:10 M. - Hr. 30 Min. From (B) 17 P.S.I. To (C) 15 P.S.I.

Tool Closed I.C.I.P. From 12:10 M. to 1:10 M. 1 Hr. - Min (D) 1251 P.S.I.

Tool Open F.F.P. From 1:10 M. to 2:40 M. 1 Hr. 30 Min. From (E) 11 P.S.I. To (F) 17 P.S.I.

Tool Closed F.C.I.P. From 2:40 M. to 4:10 M. 1 Hr. 30 Min. (G) 1264 P.S.I.

Initial Hydrostatic Pressure (A) 2274 P.S.I. Final Hydrostatic Pressure (H) 2268 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 20 minutes on second opening. See Attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 20' drilling mud.

Reversed Out - Yes X No Mud Type starch Viscosity 56 Weight 9.9 Water Loss 16.0 cc. Chlorides 62,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3504 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 32 Ft.

Remarks:

WESTERN TESTERS

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Wooldridge #2

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25693

Date 6-18-77 Sec. 6 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Jay C. McNeil Western Representative Bill Hager

Formation Test No. 4 O.K. X Misrun - Interval Tested From 4154' to 4166' Total Depth 4166'

Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4149 Ft. Size 6 3/4 Bottom Packer Depth 4154 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 12 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4157 Ft. Clock No. 4763 Depth 4160 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:38 M

Tool Open I.F.P. From 11:40 M. to 12:10 M. - Hr. 30 Min. From (B) 17 P.S.I. To (C) 15 P.S.I.

Tool Closed I.C.I.P. From 12:10 M. to 1:10 M. 1 Hr. - Min (D) 1251 P.S.I.

Tool Open F.F.P. From 1:10 M. to 2:40 M. 1 Hr. 30 Min. From (E) 11 P.S.I. To (F) 17 P.S.I.

Tool Closed F.C.I.P. From 2:40 M. to 4:10 M. 1 Hr. 30 Min. (G) 1264 P.S.I.

Initial Hydrostatic Pressure (A) 2274 P.S.I. Final Hydrostatic Pressure (H) 2268 P.S.I. Maximum Temp. 128

INFORMATION

FLOW Strong blow throughout test. Gas to surface in 20 minutes on second opening. See Attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 20' drilling mud.

Reversed Out - Yes X No Mud Type starch Viscosity 56 Weight 9.9 Water Loss 16.0 cc. Chlorides 62,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3504 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 630 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 32 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-77 Test Ticket No. 25693

Recorder No. 2604 Capacity 4150 Location 4157 Ft.

Clock No. 4763 Elevation - Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2274	P.S.I.	Open Tool	11:38 M	
B	First Initial Flow Pressure	17	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	15	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1251	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	11	P.S.I.	Final Closed-in Pressure	90 Mins.	99 Mins.
F	Second Final Flow Pressure	17	P.S.I.			
G	Final Closed-in Pressure	1264	P.S.I.			
H	Final Hydrostatic Mud	2268	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 33 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	17		0	15	0		11		0	17
P 2	5	11		3	164	5		6		3	102
P 3	10	14		6	322	10		9		6	224
P 4	15	15		9	457	15		10		9	327
P 5	20	15		12	571	20		11		12	421
P 6	25	15		15	684	25		11		15	502
P 7	30	15		18	772	30		11		18	579
P 8				21	843	35		12		21	650
P 9				24	900	40		13		24	715
P10				27	955	45		14		27	774
P11				30	1002	50		14		30	828
P12				33	1044	55		14		33	874
P13				36	1082	60		15		36	918
P14				39	1113	65		16		39	956
P15				42	1138	70		16		42	990
P16				45	1165	75		16		45	1019
P17				48	1184	80		16		48	1048
P18				51	1203	85		16		51	1071
P19				54	1220	90		17		54	1092
P20				57	1236					57	1113
				60	1251					60	1131

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WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-77 Test Ticket No. 25693

Recorder No. 2604 Capacity 4150 Location 4157 Ft.

Clock No. 4763 Elevation - Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2274 P.S.I.		Open Tool	11:38 M	
B	First Initial Flow Pressure	17 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	15 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1251 P.S.I.		Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	11 P.S.I.		Final Closed-in Pressure	90 Mins.	99 Mins.
F	Second Final Flow Pressure	17 P.S.I.				
G	Final Closed-in Pressure	1264 P.S.I.				
H	Final Hydrostatic Mud	2268 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	17
P 2 5	11
P 3 10	14
P 4 15	15
P 5 20	15
P 6 25	15
P 7 30	15
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	15
3	164
6	322
9	457
12	571
15	684
18	772
21	843
24	900
27	955
30	1002
33	1044
36	1082
39	1113
42	1138
45	1165
48	1184
51	1203
54	1220
57	1236
60	1251

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	11
5	6
10	9
15	10
20	11
25	11
30	11
35	12
40	13
45	14
50	14
55	14
60	15
65	16
70	16
75	16
80	16
85	16
90	17

Final Shut-In
Breakdown: 33 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	17
3	102
6	224
9	327
12	421
15	502
18	579
21	650
24	715
27	774
30	828
33	874
36	918
39	956
42	990
45	1019
48	1048
51	1071
54	1092
57	1113
60	1131

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WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-77 Test Ticket No. 25693

Recorder No. 2604 Capacity 4150 Location 4157 Ft

Clock No. 4763 Elevation - Well Temperature 128 °I

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: Inc.	Breakdown: Inc.	Breakdown: Inc.	Breakdown: 33 Inc.
of mins. and a	of mins. and a	of mins. and a	of 3 mins. and a
final inc. of Min.	final inc. of Min.	final inc. of Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1148
P 2						66	1163
P 3						69	1176
P 4						72	1190
P 5						75	1201
P 6						78	1211
P 7						81	1222
P 8						84	1231
P 9						87	1238
P10						90	1246
P11						93	1253
P12						96	1259
P13						99	1264
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-77 Test Ticket No. 25693

Recorder No. 2604 Capacity 4150 Location 4157 Ft

Clock No. 4763 Elevation - Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: Inc.	Breakdown: Inc.	Breakdown: Inc.	Breakdown: 33 Inc.
of mins. and a	of mins. and a	of mins. and a	of 3 mins. and a
final inc. of Min.	final inc. of Min.	final inc. of Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1148
P 2						66	1163
P 3						69	1176
P 4						72	1190
P 5						75	1201
P 6						78	1211
P 7						81	1222
P 8						84	1231
P 9						87	1238
P10						90	1246
P11						93	1253
P12						96	1259
P13						99	1264
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 6-18-77 Ticket 25693 Company Pickrell Drilling Company

Well Name and No. Wooldridge #2 Dst No. 4 Interval Tested 4154' - 4166'

County Kingman State Kansas Sec. 6 Twp. 30S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
SECOND FLOW						
1:40	30 min.	12 inches	of water		¼" choke	5,860 C.F.P.D.
1:50	40 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:00	50 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:10	60 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:20	70 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:30	80 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:40	90 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-18-77 Date to be Invoiced 6-18-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Jay C. McNeil

FORM WTC 6

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 6-18-77 Ticket 25693 Company Pickrell Drilling Company

Well Name and No. Wooldridge #2 Dst No. 4 Interval Tested 4154' - 4166'

County Kingman State Kansas Sec. 6 Twp. 30S Rg. 7W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
						PRE FLOW
						SECOND FLOW
1:40	30 min.	12 inches	of water		¼" choke	5,860 C.F.P.D.
1:50	40 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:00	50 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:10	60 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:20	70 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:30	80 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.
2:40	90 min.	14 inches	of water		¼" choke	6,330 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-18-77 Date to be Invoiced 6-18-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Jay C. McNeil

FORM WTC 6